

ATLANTIC UNDERSEA TEST AND EVALUATION CENTER (AUTEC)

OVERVIEW OF OPERATIONS

NAVY

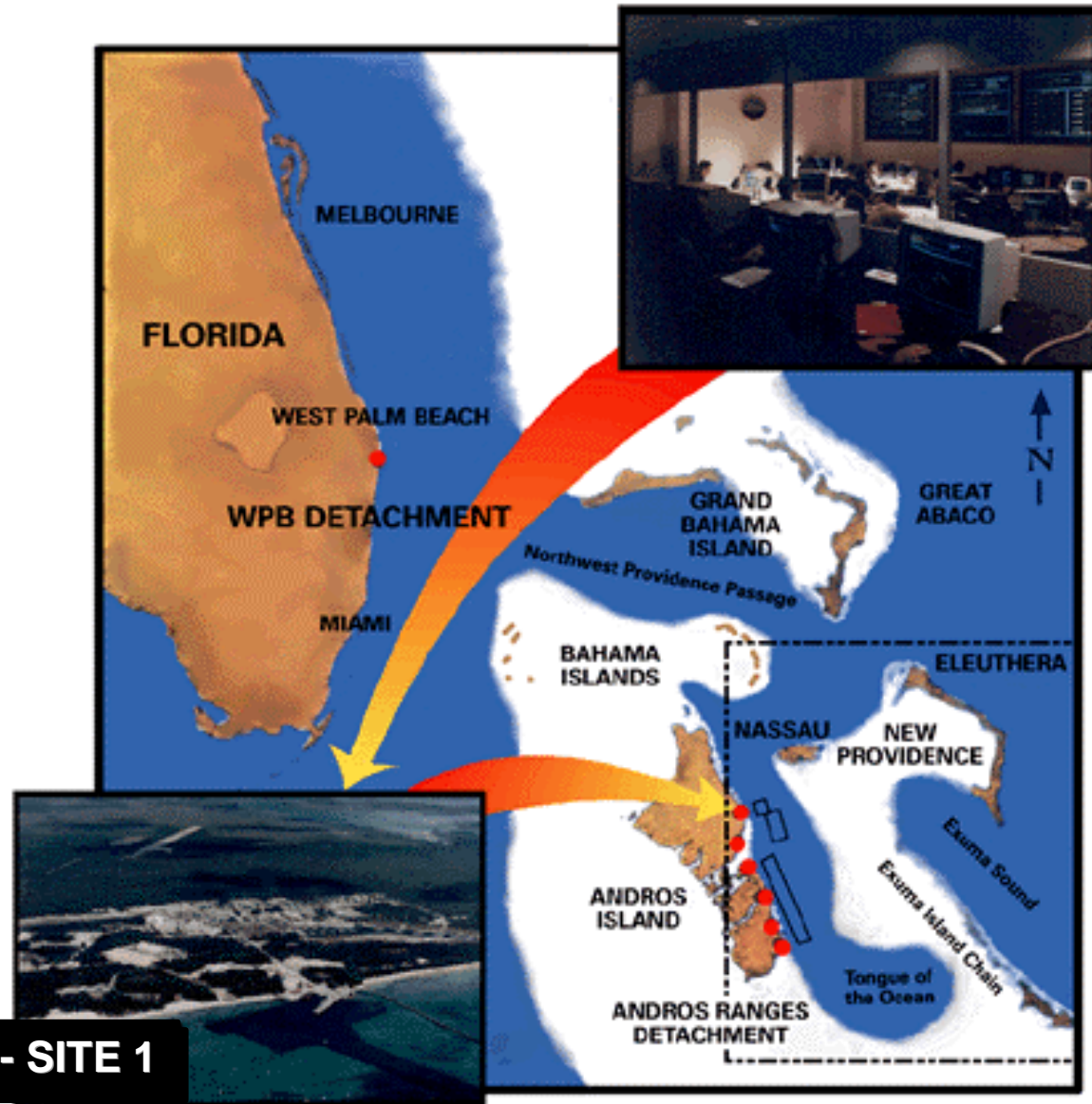
Major Range and Test Facility Base (MRTFB)

OUTLINE

- **BACKGROUND INFORMATION**
- **ORGANIZATION**
- **BUSINESS AND FINANCIAL**
- **MAINTENANCE & OPERATION CONTRACT**

BACKGROUND INFORMATION

AUTEC



AUTEC MAIN BASE - SITE 1

Main Base - Site 1



10 Sep 2002

Aerial View of Site 1



10 Sep 2002

Rendez-vous on Range



ATLANTIC UNDERSEA TEST AND EVALUATION CENTER



Test Conduct Capabilities

- Research and development testing of advanced Undersea Warfare Systems, weapons and other underwater vehicles
- Precision in-water/in-air tracking for up to 19 objects over area of 470 sq. nautical miles
- Acoustic trials of weapons/UUVs/passive buoyant shapes
- Real-time Displays/Remote Displays/Videotaping/Post-test Data Processing and Analysis



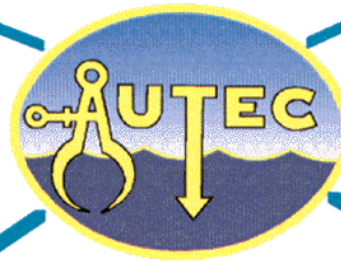
Vessels and Range Craft

- 2 large open ocean capable research vessels
 - Submarine/Surface Ship Torpedo Launch Tubes
 - High Sea State Exercise Weapon Recovery
- 1 Dedicated Torpedo/Weapon Recovery Vessel
- 1 Logistic/Range Instrumentation Support Craft
- 1 Personnel Transfer Boat

AUTEC MISSION

TO PROVIDE A TEST AND EVALUATION FACILITY FOR:

- USW Research & Development Programs
- Testing and Calibrating Sensors
- Underwater Acoustic Measurements
- Fleet Training/Readiness Assessments



Target Services

- Mobile Targets Mk 30
- Stationary Targets for Sonar, Radar, ESM/ECM, RDF, Optical Sensors
- Towed Submarine Simulators



Range User Services

- Test Engineering/Planning/Documentation/Scheduling
- Test Conduct/Range Safety
- Data Acquisition/Processing/Analysis
- Exercise Weapon Prep/Post-Run
- Targets/Photo-Video/Diving
- Logistic/Supply Services
- Buildings/Work Space/Staging Areas



Test Support Aircraft

- 2 Heavy Lift Helicopters
- Overwater Capable/Twin Engine
- 8,000 lb External Lift Capacity
- Mobile Target Mk 30 Launch/Recovery
- Exercise Weapon Recovery

BAHAMIAN LOCATION

- TOPOGRAPHICALLY SHIELDED FROM OPEN OCEAN/SHIPPING NOISE
- LOW COMMERCIAL SHIP ACTIVITY /INTERFERENCE ON RANGE
- HIGH OPERATIONAL SECURITY DUE TO GEOGRAPHY OF TOTO
- GOOD WEATHER SUPPORTS YEAR ROUND OPS
- MINIMAL TRANSIT TIMES/OP COSTS FROM CONTINENTAL US BASES
- LITTLE DEVELOPMENT. NO ENCROACHMENT PROBLEMS.

- ANDROS ISLAND, HOWEVER, HAS NO APPRECIABLE INFRASTRUCTURE:
 - ALL SUPPORT SERVICES, FROM GENERATING ELECTRICITY AND WATER TO PROVIDING FOOD SERVICE, HOUSING, SEWAGE TREATMENT, SECURITY, FIRE PROTECTION, ETC., MUST BE SELF-PROVIDED.
 - MOST FOOD, AND ALL MATERIALS, SPARE/REPAIR PARTS, CONSUMABLES, AND OTHER GOODS MUST BE SHIPPED FROM CONUS

RANGE CHARACTERISTICS

- 1. ACOUSTICALLY QUIET (? S/S 1, EXTENDED PROPAGATION) U/W INSTRUMENTED RANGE**
- 2. GEOGRAPHICALLY CONFINED ACCESS /ISOLATED (LOW TRAFFIC; HIGH OPSEC)**
- 3. CENTIMETER ACOUSTIC TRACKING ACCURACY (PROCESSED /RELATIVE)**
- 4. TSPI /DATA PROCESSING /MARINE /LOGISTICS SERVICES**
- 5. DEEP WATER RANGE (? 1000 FATHOMS) WITHIN SHORT TRANSIT DISTANCE TO CONUS**
- 6. SHALLOW WATER RANGE (50 - 300 FATHOMS) ~ 60 MILES NORTH OF DEEP WATER RANGE**
- 7. CERTIFICATION OF SHIPBOARD /HELO ACOUSTIC /RF /NAV SENSORS (FORACS)**
- 8. LOW TURBULENCE /LOW TURBIDITY UNDERSEA ENVIRONMENT**

GENERAL CUSTOMER REQUIREMENTS

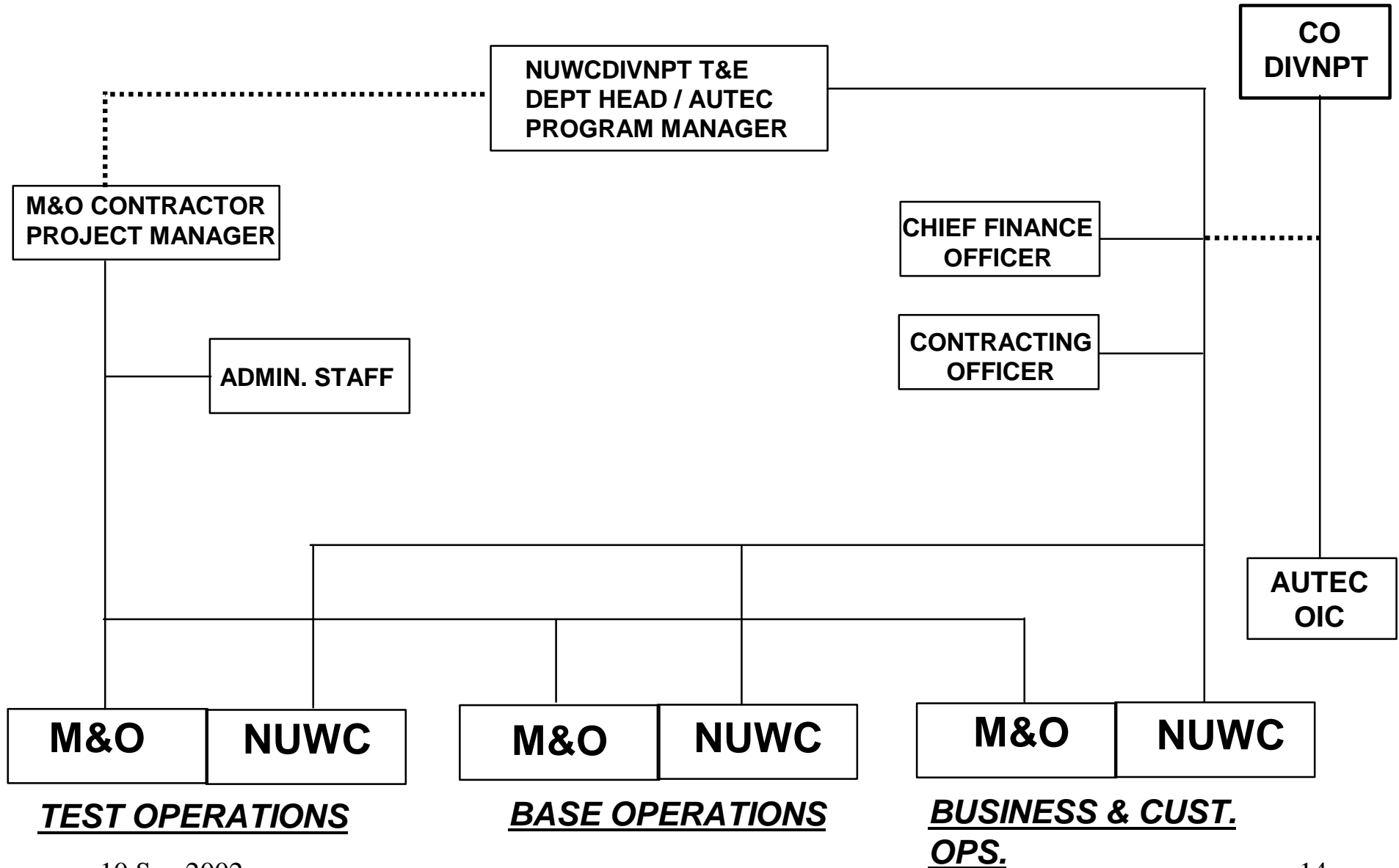
- Support DT&E and OT&E threshold decisions regarding performance of USW combat systems:
 - **Acoustic tracking**
For underwater/surface-vehicle/weapon/sonar/combat system dynamic performance measurements.
 - **RF tracking**
For range safety and air/surface-vehicle sonar/combat system performance measurements concurrent with acoustic track data.
 - **Acoustic measurement**
For unmanned undersea systems radiated noise /quieting.
 - **Acoustic stimulation**
For sonar and sonobuoy performance and calibration testing.
- Support Fleet assessment and training readiness exercises.
- Support simultaneous T&E operations and Fleet training exercises.

ORGANIZATION

AUTEC CONCEPT OF OPERATION

- **GOVERNMENT OWNED AND MANAGED**
 - PROGRAM MANAGEMENT LOCATED AT NUWCDIV NEWPORT, RI
 - RANGE OPERATIONS MANAGEMENT LOCATED AT NUWCDET AUTEC, WEST PALM BEACH, FL
 - MINIMAL MANNING AS NEEDED TO PERFORM INHERENT GOVERNMENT FUNCTIONS/RESPONSIBILITIES:
PLANNING; BUDGETING AND FUNDS MANAGEMENT; CUSTOMER INTERFACE;
CONTRACTOR WORK DEFINITIONS AND PRIORITIZATION; CONTRACTOR PERFORMANCE MONITORING
- **CONTRACTOR MAINTAINED AND OPERATED**
 - A SINGLE, PERFORMANCED BASED, COST PLUS AWARD FEE CONTRACT
 - DAY-TO-DAY OPERATION AND MAINTENANCE OF TEST INSTRUMENTATION, TEST SUPPORT ASSETS, INFRASTRUCTURE, AND BASE FACILITIES
- **RATIO OF CONTRACTOR TO GOVERNMENT PERSONNEL IS 14:1.**

ORGANIZATION & TEAMING STRUCTURE



CURRENT WORKFORCE COMPOSITION

| | <u>NEWPORT, RI</u> | <u>FLORIDA</u> | <u>ANDROS IS.</u> | <u>TOTALS</u> |
|-------------------------|--------------------|----------------|-------------------|---------------|
| CIVILIAN | | | | |
| ENGINEERS | 2 | 31 | 2 | 35 |
| ADMIN / TECH / CLERICAL | 6 | 7 | 2 | 15 |
| | <hr/> | | | |
| SUBTOTALS | 8 | 38 | 4 | 50 |
| MILITARY | | | | |
| OFFICERS | | 2 | 2 | 4 |
| WARRANT OFFICERS | | 0 | 1 | 1 |
| ENLISTED | | 0 | 28 | 28 |
| | <hr/> | | | |
| SUBTOTALS | | 2 | 31 | 33 |
| CONTRACTOR | | | | |
| BAHAMIAN NATIONALS | | 0 | 182 | 182 |
| U.S. CITIZENS | | 121 | 364 | 485 |
| | <hr/> | | | |
| SUBTOTALS | | 121 | 546 | 667 |
| | <hr/> | | | |
| TOTALS | 8 | 161 | 581 | 750 |

BUSINESS AND FINANCIAL

DoD Major Range and Test Facility Base (MRTFB)

- **Definition**
 - A national test asset operated and maintained primarily for DoD test and evaluation support missions. Available to support other U.S. Government, allied foreign governments, and private organizations.
- **MRTFB Governing Documents**
 - DoD 3200.11 (Series); Major Range and Test Facility Base
 - OPNAVINST 3900.25 (Series); Major Range and Test Facility Base
 - OPNAVINST 5450.214 (Series); Mission, Functions and Tasks of the Commander, Naval Air Systems Command
- **Uniform Funding**
 - Institutional (RDT&E) Funds. Program funds provided by Congress (PE 0605864N) to support all overhead costs. Customer Funds.
 - DoD customers reimburse direct costs including labor, consumables, expendables, etc. (e.g., costs associated with use). FMS must also reimburse a pro-rata share of institutional costs.

BAHAMIAN LEASE

- **Title**: “AGREEMENT BETWEEN THE GOVERNMENT OF THE UNITED STATES OF AMERICA AND THE GOVERNMENT OF THE COMMONWEALTH OF THE BAHAMAS CONCERNING UNITED STATES’ DEFENSE FACILITIES IN THE COMMONWEALTH OF THE BAHAMAS”
- **Background**: NEGOTIATED BY THE DEPARTMENT OF STATE, EFFECTIVE 28 JAN 1983
- **Resources**: PROVIDES FOR RIGHT OF USE OF THE LAND SITES, AIRSPACE, AND SEABED

**CURRENT MAINTENANCE & OPERATIONS
SERVICES CONTRACT**

CURRENT CONTRACT DESCRIPTION

- **AUTEC CONCEPT OF OPERATIONS**
 - GOVERNMENT OWNED AND MANAGED
 - CONTRACTOR MAINTAINED AND OPERATED

- **SCOPE OF CONTRACT**
 - TEST OPERATIONS SUPPORT
 - INSTRUMENTATION /TECHNICAL EQUIPMENT SUPPORT
 - BASE /NON-TECHNICAL SUPPORT

- **TYPE OF CONTRACT**
 - COMPETITIVE PROCUREMENT - PERFORMANCED BASED
 - COST PLUS AWARD FEE (CPAF)

CURRENT CONTRACT DESCRIPTION (CONT'D)

- **CONTRACTOR**
 - RAYTHEON RANGE SYSTEMS ENGINEERING CO.
- **TERM**
 - PHASE-IN PERIOD: 1 JAN 97 - 31 MAR 97
 - BASIC (5 YEARS): 1 APR 97 - 31 MAR 02
 - OPTION (3 YEARS): 1 APR 97 - 31 MAR 05
- **DOLLAR VALUE**
 - 281M

CURRENT CONTRACT DESCRIPTION (CONT'D)

- **CONTRACTUAL CAPS IN PLACE RESTRICTING THE AMOUNT THAT CAN BE CHARGED TO THE GOVERNMENT FOR U.S., STRAIGHT TIME, LABOR, A PORTION OF U.S. FRINGE BENEFITS AND G&A RATE**
- **REQUIRED CONTRACTOR CAPITAL INVESTMENTS**
 - **2 BEECHCRAFT 1900D AIRLINERS**
 - **2 S-61N HELOS**
 - **FIXED-WING AIR OPERATIONS FACILITY, PALM BEACH INTERNATIONAL AIRPORT**
 - **ACQUIRE EXISTING BASE EXCHANGE STOCK INVENTORY**

- OUTLOOK - NEW CONTRACT CONSIDERATIONS

- Options being explored to improve efficiency of new contract:
 - CPAF, CPIF, FFP+IF, CPAT, combinations
 - Limit M&O contract to core /basic services
 - Sub-contract for specialty /non-core services
 - “Non-traditional” concept of operations (open definition)
- Contract is expected to be valued at ~\$500M over 10 years.
- Projected award date is 31 December 2004 with a period of performance starting 01 April 2005.
- A draft RFP is anticipated to be released to industry for comment in January, 2004
- a site visit as well as a pre-proposal conference will be held in the spring of 2004